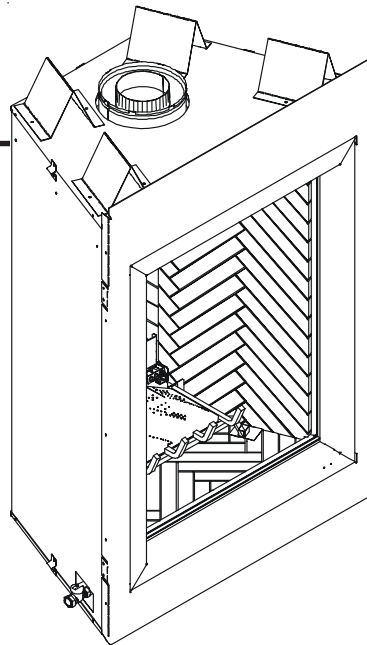


Model: Everest



Installers Guide



Underwriters
Laboratories Listed

READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS *INSTALLERS GUIDE* MUST BE LEFT WITH APPLIANCE FOR FUTURE REFERENCE.

WARNING: IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - Do not try to light any appliance.
 - Do not touch any electrical switch.
 - Do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER.

1. This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.
2. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

In the Commonwealth of Massachusetts:

- installation must be performed by a licensed plumber or gas fitter;
- a CO detector shall be installed in the room where the appliance is installed.

Printed in U.S.A. Copyright 2006


Heat & Glo, a brand of Hearth & Home Technologies Inc.
20802 Kensington Boulevard, Lakeville, MN 55044


Please contact your Heat & Glo dealer with any questions or concerns. For the number of your nearest Heat & Glo dealer, please call 1-888-427-3973.

This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6849441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.


SAFETY AND WARNING INFORMATION


 **READ** and **UNDERSTAND** all instructions carefully before starting the installation. **FAILURE TO FOLLOW** these installation instructions may result in a possible fire hazard and will void the warranty.


 Prior to the first firing of the fireplace, **READ** the Using Your Fireplace section of the *Owners Guide*.


 **DO NOT USE** this appliance if any part has been under water. Immediately **CALL** a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been under water.


 **THIS UNIT IS NOT FOR USE WITH SOLID FUEL.**


 Installation and repair should be **PERFORMED** by a qualified service person. The appliance and venting system should be **INSPECTED** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is **IMPERATIVE** that the unit's control compartment, burners, and circulating air passageways **BE KEPT CLEAN** to provide for adequate combustion and ventilation air.


 Always **KEEP** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.


 **NEVER OBSTRUCT** the flow of combustion and ventilation air. Keep the front of the appliance **CLEAR** of all obstacles and materials for servicing and proper operations.


 Due to the high temperature, the appliance should be **LOCATED** out of traffic areas and away from furniture and draperies. Clothing or flammable material **SHOULD NOT BE PLACED** on or near the appliance.


 Children and adults should be **ALERTED** to the hazards of high surface temperature and should **STAY AWAY** to avoid burns or clothing ignition. Young children should be **CAREFULLY SUPERVISED** when they are in the same room as the appliance.


 These units **MUST** use one of the vent systems described in the Installing the Fireplace section of the *Installers Guide*. **NO OTHER** vent systems or components **MAY BE USED**.


 This gas fireplace and vent assembly **MUST** be vented directly to the outside and **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance **MUST USE** a separate vent system. Common vent systems are **PROHIBITED**.


 **INSPECT** the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.


 The glass door assembly **MUST** be in place and sealed, and the trim door assembly **MUST** be in place on the fireplace before the unit can be placed into safe operation.

 **WARNING: DO NOT OPERATE** this appliance with the glass door removed, cracked, or broken. Broken glass may be sharp to the touch, use caution when removing. Replacement of the glass door should be performed by a licensed or qualified service person. **DO NOT** strike or slam the glass door.

 The glass door assembly **SHALL ONLY** be replaced as a complete unit, as supplied by the gas fireplace manufacturer. **NO SUBSTITUTE** material may be used.

 **DO NOT USE** abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.

 Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

 Any safety screen or guard removed for servicing must be replaced before operating this appliance.


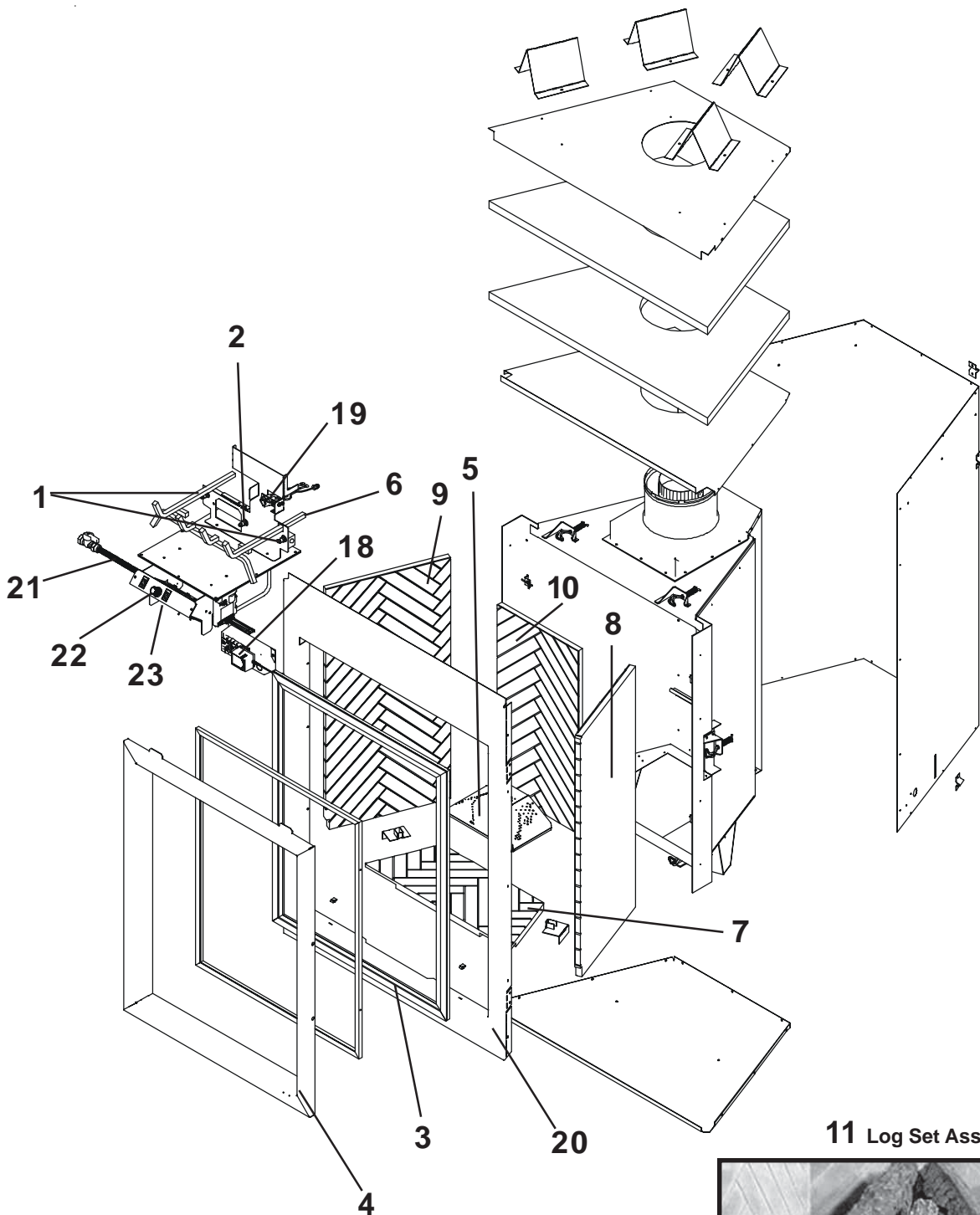
 **DO NOT** place furniture or any other combustible household objects within 36 inches of the fireplace front.

Table of Contents

Safety and Warning Information	2
→ Service Parts Lists	4
Section 1: Approvals and Codes	6
Appliance Certification	6
Installation Codes	6
High Altitude Installations	6
Section 2: Getting Started	7
Introducing the Heat & Glo Gas Fireplaces	7
Pre-installation Preparation	7
Section 3: Installing the Fireplace	9
Step 1 Locating the Fireplace	9
Step 2 Framing the Fireplace	9
Step 3 Installing the Vent System	10
A. Vent System Approvals	10
B. Installing Vent Components	15
C. Vent Termination	18
Step 4 Positioning, Leveling, and Securing the Fireplace	21
Step 5 The Gas Control Systems	21
Step 6 The Gas Supply Line	22
Step 7 Gas Pressure Requirements	22
Step 8 Wiring the Fireplace	23
Step 9 Finishing	24
Step 10 Installing Trim, Logs, and Ember Material	25
Installing the Trim	25
Positioning the Logs	25
Placing the Ember Material	25
Step 11 Before Lighting the Fireplace	26
Step 12 Lighting the Fireplace	26
After the Installation	26
Battery Backup	26
Section 4: Maintaining and Servicing Your Fireplace	27

→ = Contains updated information.



11 Log Set Assembly



Part number list on following page.

12 Back Log (not shown)

Service Parts List

EVEREST

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on your dealers VIP site. When ordering, supply serial and model numbers to ensure correct service parts.

ITEM	IPI IGNITION	SERIAL #	PART NUMBER
1	Log Burner Orifice NG (#53A)	PRE 5000 POST 5000	060-801 582-853
1	Log Burner Orifice LP (#64A)	PRE 5000 POST 5000	750-800 582-864
2	Main Burner Orifice NG (#45A)	PRE 5000 POST 5000	062-801 582-845
2	Main Burner Orifice LP (#56)	PRE 5000 POST 5000	045-802 582-856
3	Glass Door Assembly		GLA-Everest
4	Standard Door		DF-Everest
5	Burner NG, LP		750-175A
6	Log Grate		750-360A
7	Refractory, Base		SRV750-733
8	Refractory, Right Side		SRV750-731
9	Refractory, Left Side		SRV750-730
10	Refractory, Back		SRV750-732
11	Log Set Assembly		LOGS-Everest
12	Log 1 Back Log		SRV750-703
13	Log 2 Left Burner Log		SRV750-701A
14	Log 3 Right Burner Log		SRV750-702A
15	Log 4 Right Inside Log		SRV750-705
16	Log 5 Small Log		SRV750-706
17	Log 6 Left Inside Log		SRV750-704
	Valve NG	PRE 5000 POST 5000	060-522 750-500
	Valve LP	PRE 5000 POST 5000	060-523 750-501
18	Junction Box		4021-013
19	Pilot Assembly NG (must order whole assembly)	PRE 5000 POST 5000	485-510A 593-512A
19	Pilot Assembly LP (must order whole assembly)	PRE 5000 POST 5000	485-511A 593-513A
20	Surround	PRE 7-1-03 POST 7-1-03	750-130 750-132
21	Flex Ball Valve Assembly		302-320A
22	Flame Control Knob		571-531
23	ON/OFF Rocker Switch		060-511
	Module		593-592
	Wire Assembly		593-590A
	3V Adaptor Plug		593-593A
	Battery Pack		593-594A
	Trim Door Mesh		MESH-Everest
	ON/OFF Rocker Switch		750-556A
	Glass Latch Assembly		386-122A
	Mineral Wool Embers		050-721
	Lava Rock Bag		705-420
ACCESSORIES			
	Remote Control Kit		RC-SMART-HNG
	Remote Control Kit		SMART-STAT-HNG
	Wall Switch Kit, Off White		WSK-21
	Wall Switch Kit, White		WSK-21-W
	Conversion Kit LP SPI	PRE 5000 POST 5000	LPK-Everest LPKP-Everest
	Conversion Kit NG SPI	PRE 5000 POST 5000	NGK-Everest NGKP-Everest

1

Approvals and Codes

Appliance Certification

The Heat & Glo fireplace model discussed in this *Installers Guide* have been tested to certification standards and listed by the applicable laboratories.

Certification

MODEL: EVEREST

LABORATORY: Underwriters Laboratories

TYPE: Direct Vent Gas Fireplace Heater

STANDARD: ANSIZ21.88-1998/CSA2.33-M98•UL307B

Installation Codes

The fireplace installation must conform to local codes. Before installing the fireplace, consult the local building code agency to ensure that you are in compliance with all applicable codes, including permits and inspections.

In the absence of local codes, the fireplace installation must conform to the National Fuel Gas Code ANSI Z223.1 (in the United States) or the CAN/CGA-B149 Installation Codes (in Canada). The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes with the National Electric Code ANSI/NFPA No. 70 (in the United States), or to the CSA C22.1 Canadian Electric Code (in Canada).

These models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

High Altitude Installations

U.L. Listed gas appliances are tested and approved without requiring changes for elevations from 0 to 2,000 feet in the U. S. A. and in Canada.

When installing this appliance at an elevation above 2,000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A. or 10% for elevations between 2000 and 4500 feet in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4,500 feet (in Canada), check with local authorities.



Heat & Glo Quality Systems
registered by SGS ICS

2

Getting Started

Introducing the Heat & Glo Gas Fireplaces

Heat & Glo direct vent gas fireplaces are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems. Gas fireplace diagrams, including the dimensions, are shown in this section.

Pre-install Preparation

This gas fireplace and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit with damaged, incomplete, or substitute parts.**

The vent system components and trim doors are shipped in separate packages. The gas logs may be packaged separately and must be field installed.

Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard.

When planning a fireplace installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories devices such as a fan, wall switch, or remote control are desired.

If the fireplace is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the fireplace should be installed on a metal or wood panel that extends the full width and depth of the fireplace.

Warranty

The Heat & Glo Warranty will be voided by, and Heat & Glo disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or vent system component.
- Modification of the fireplace or direct vent system.
- Installation other than as instructed by Heat & Glo.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Heat & Glo, notwithstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

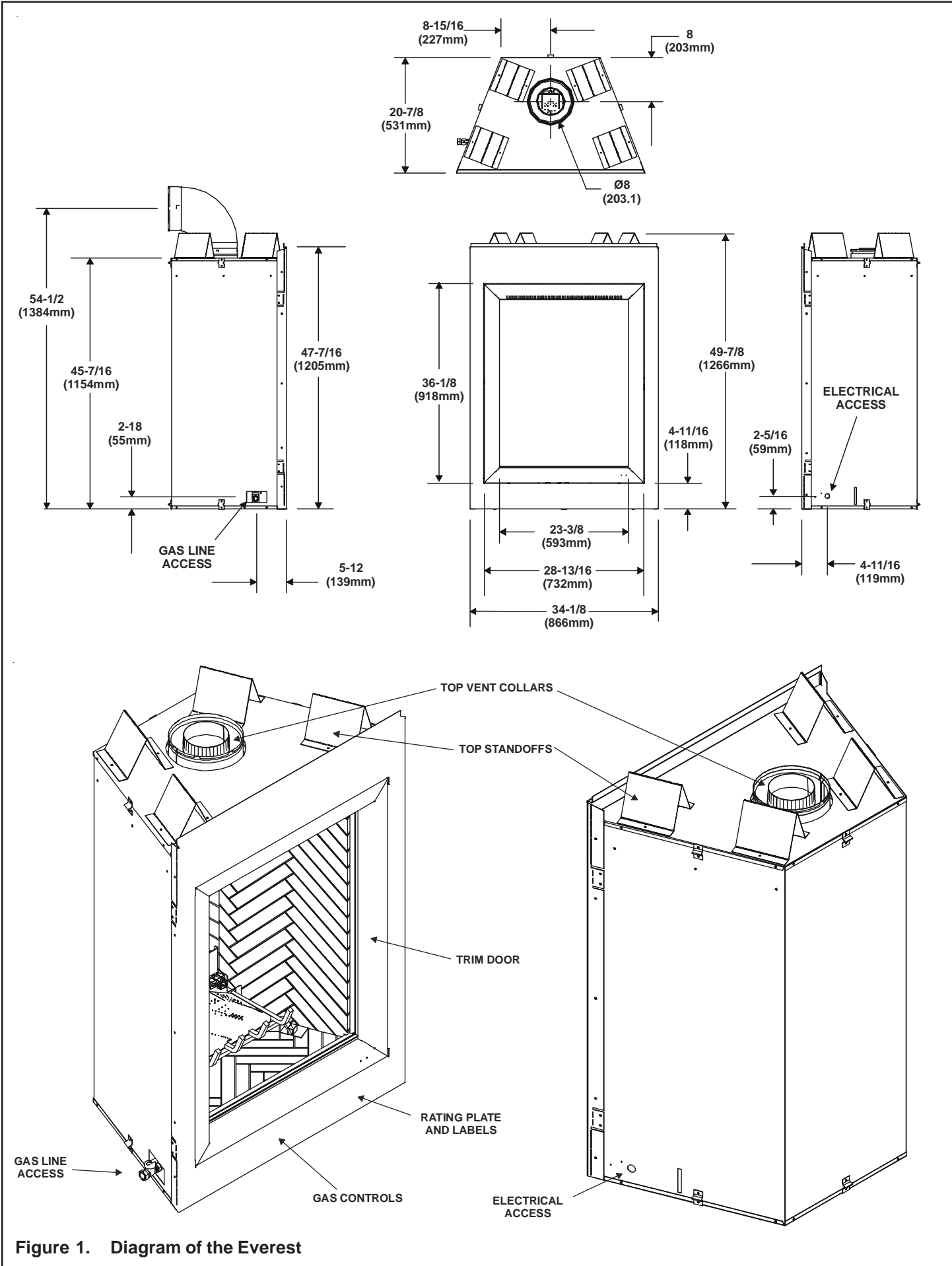


Figure 1. Diagram of the Everest

3

Installing the Fireplace

Step 1. Locating the Fireplace

The diagram below shows space and clearance requirements for locating a fireplace within a room.

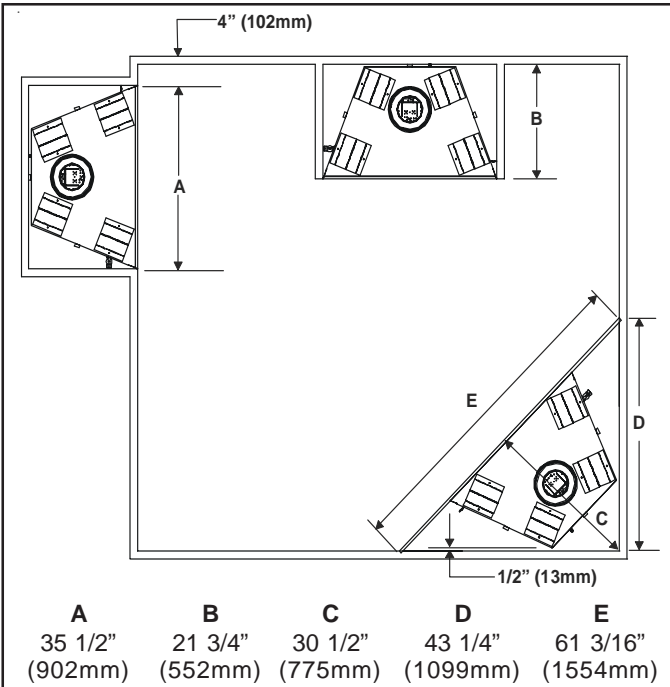


Figure 2. Fireplace Dimensions, Locations, and Space Requirements

Clearance Requirements

The top, back, and sides of the fireplace are defined by stand-offs. The minimum clearance to a perpendicular wall extending past the face of the fireplace is 4 inches (102mm). The back of the fireplace may be recessed 23 (584mm) inches (546mm) into combustible construction.

Minimum Clearances from the Fireplace to Combustible Materials		
	Inches	mm
Glass Front	36	914
Floor	0	0
Rear	1/2	13
Sides	1/2	13
Top	4 1/2	114
Ceiling*	31	787

* The clearance to the ceiling is measured from the top of the unit, excluding the stand-offs and collar. See Figure 24 for further details.

Minimum Clearances from the Vent Pipe to Combustible Materials		
	Inches	mm
Vertical Sections	1	25
Horizontal Sections		
Top	3	75
Bottom	1	25
Sides	1	25
At Wall Firestops		
Top	3	76
Bottom	1	25
Sides	1	25

For minimum clearances, see the direct vent termination clearance diagrams on pages 20 and 21 in this manual.

The distance from the unit to combustible construction is to be measured from the unit outer wrap surface to the combustible construction, **NOT** from the screw heads that secure the unit together.

Step 2. Framing the Fireplace

Fireplace framing can be built before or after the fireplace is set in place. Framing should be positioned to accommodate wall coverings and fireplace facing material. The diagram below shows framing reference dimensions.

CAUTION: MEASURE FIREPLACE DIMENSIONS, AND VERIFY FRAMING METHODS AND WALL COVERING DETAILS, BEFORE FRAMING.

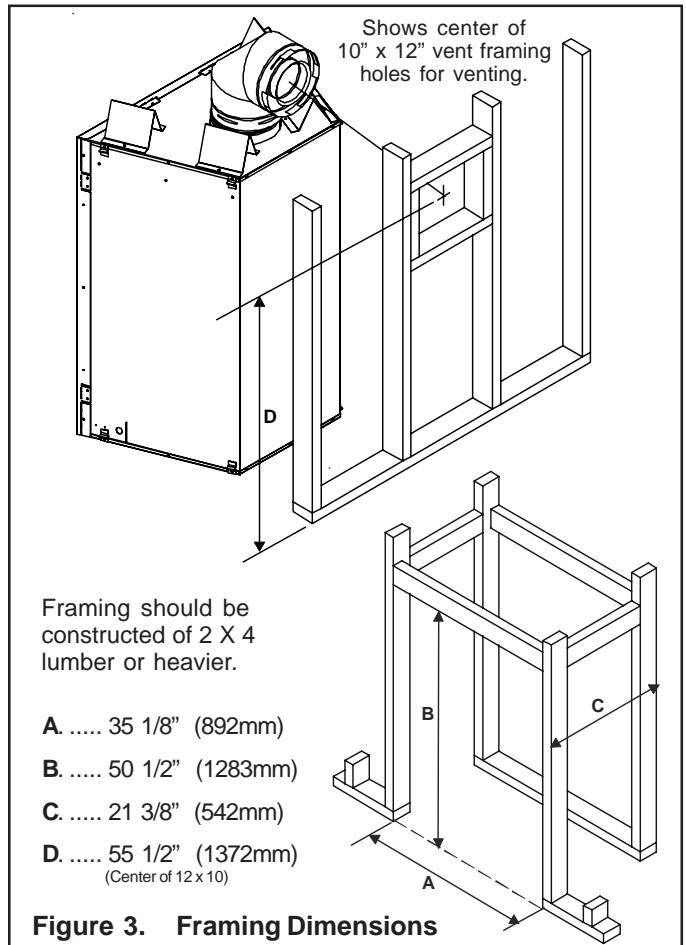


Figure 3. Framing Dimensions

Step 3. Installing the Vent System

A. Vent System Approvals

These models are approved to use DVP-series direct vent pipe components and terminations. Approved vent system components are labeled for identification. This pipe is tested and listed as an approved component of the fireplace. The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall. There is no required pitch for horizontal vent runs. **NO OTHER VENTING SYSTEMS OR COMPONENTS MAY BE USED.**

Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this *Installers Guide*. The drawing below shows vent system components and terminations.

The flame and ember appearance may vary based on the type of fuel burned and the venting configuration used.

Identifying Vent Components

The vent systems installed on this gas fireplace may include one, two, or three 90° elbow assemblies. The relationships of vertical rise to horizontal run in vent configurations using 90° elbows **MUST BE** strictly adhered to. The rise to run relationships are shown in the venting drawings and tables. Refer to the diagrams on the next several pages.

NOTE: Two 45° elbows may be used in place of one 90° elbow. rise to run ratios in the vent system **must** be followed if 45° elbows are used.

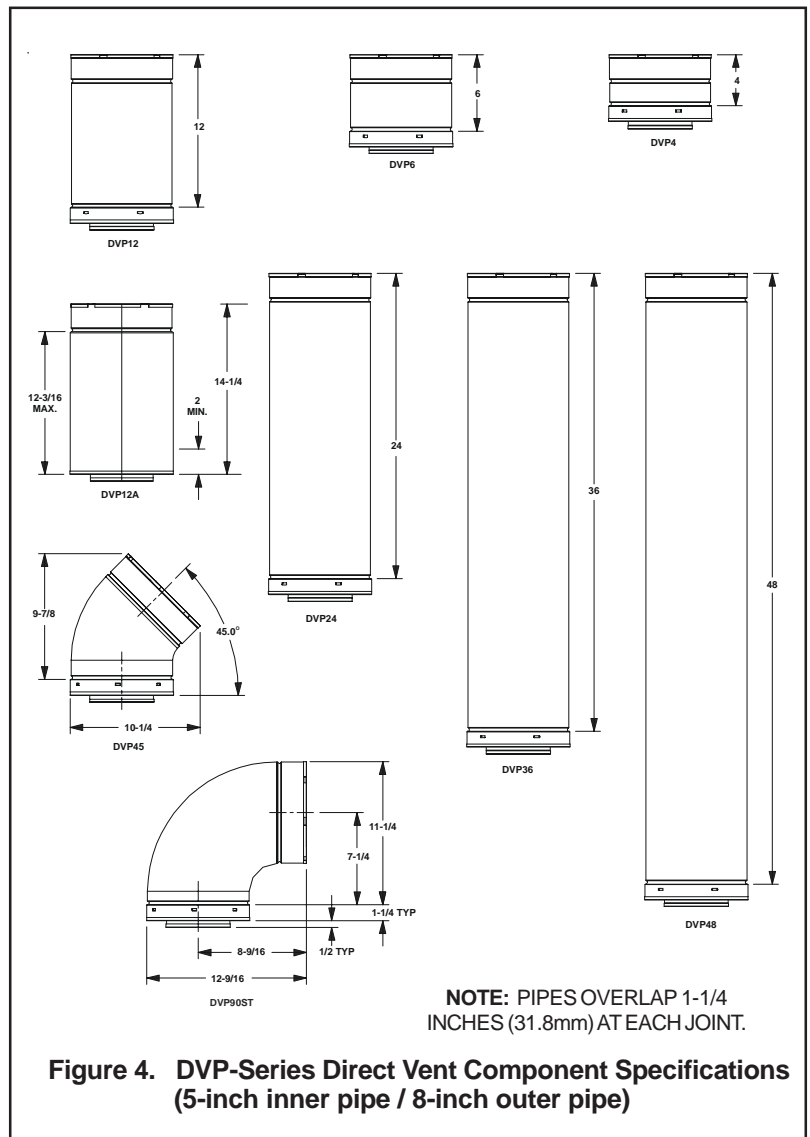


Figure 4. DVP-Series Direct Vent Component Specifications (5-inch inner pipe / 8-inch outer pipe)

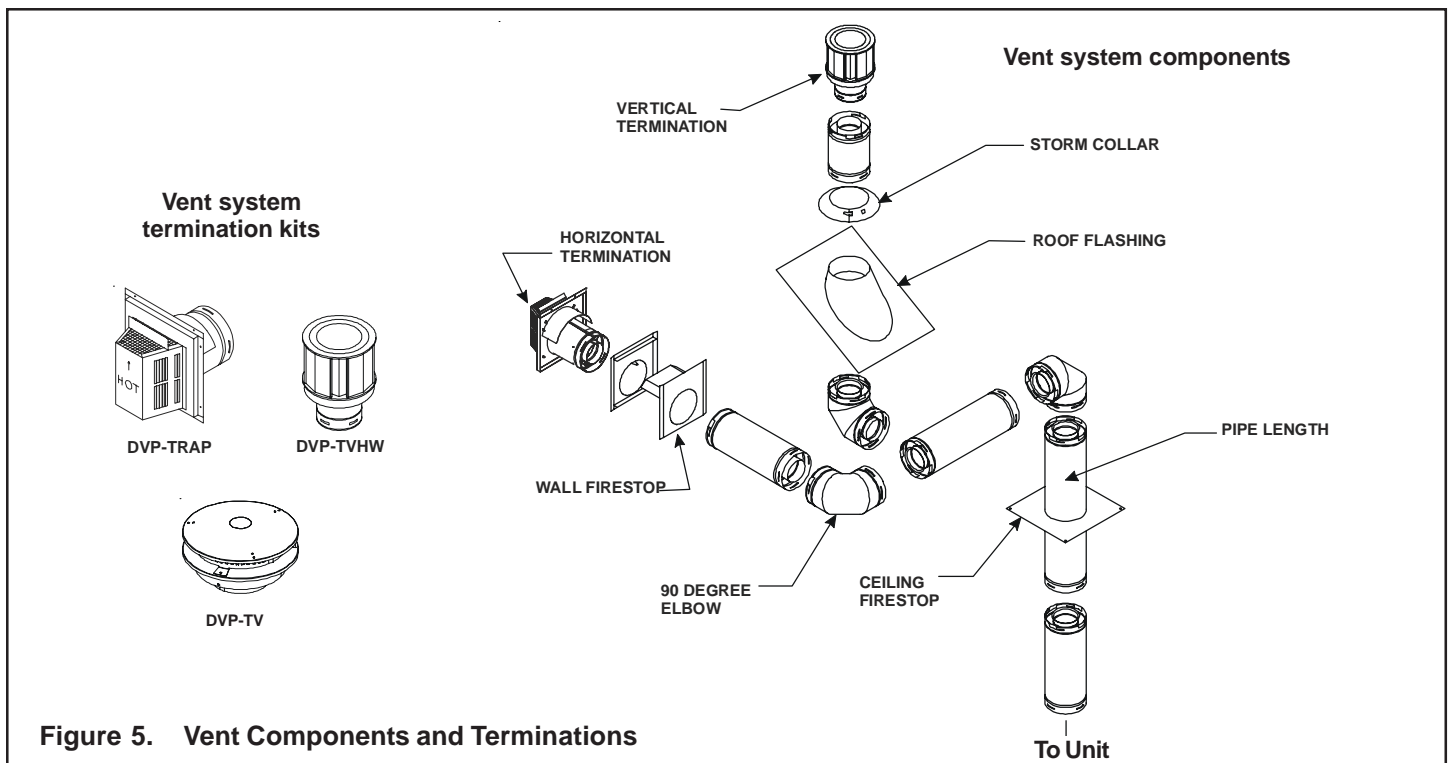
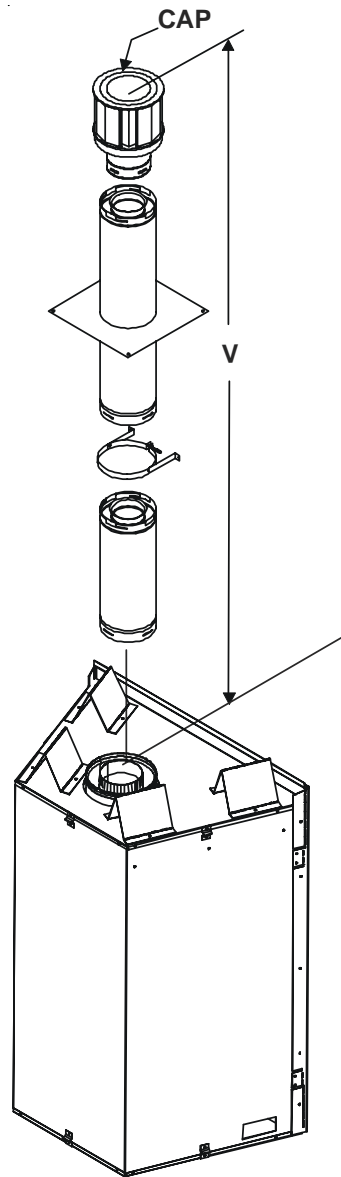


Figure 5. Vent Components and Terminations



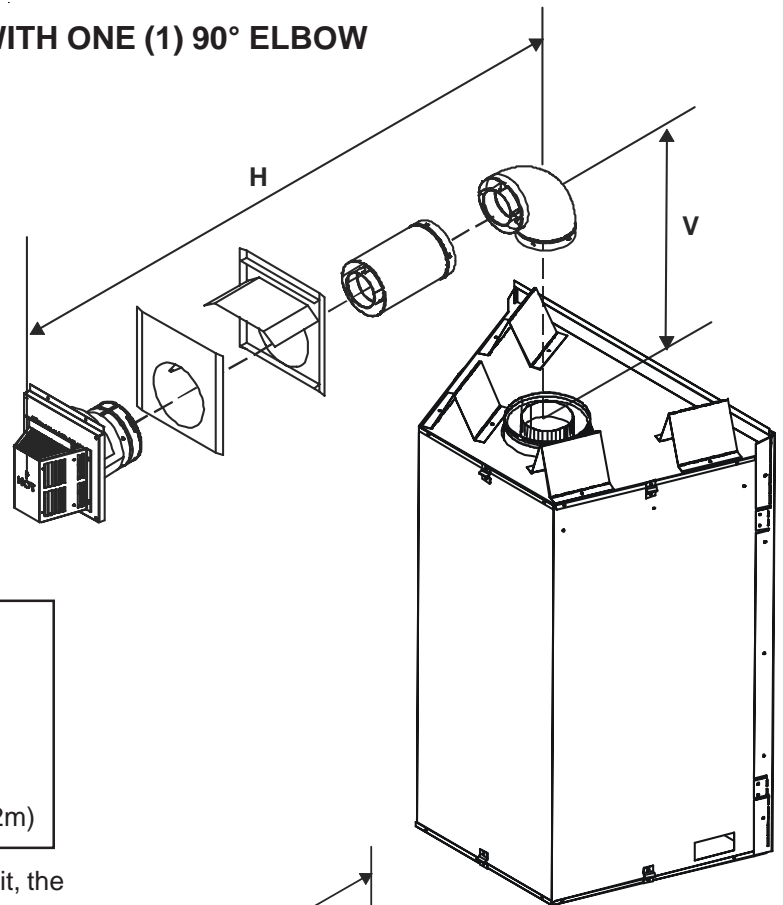
**STRAIGHT UP
VERTICAL VENTING**

V (FT.)

40' MAX. (12.4 M)

Figure 6. Straight Up Vertical Venting

VENTING WITH ONE (1) 90° ELBOW



NOTE: If a 90° elbow is first attached to the unit, the maximum horizontal run is 3-feet (914mm).

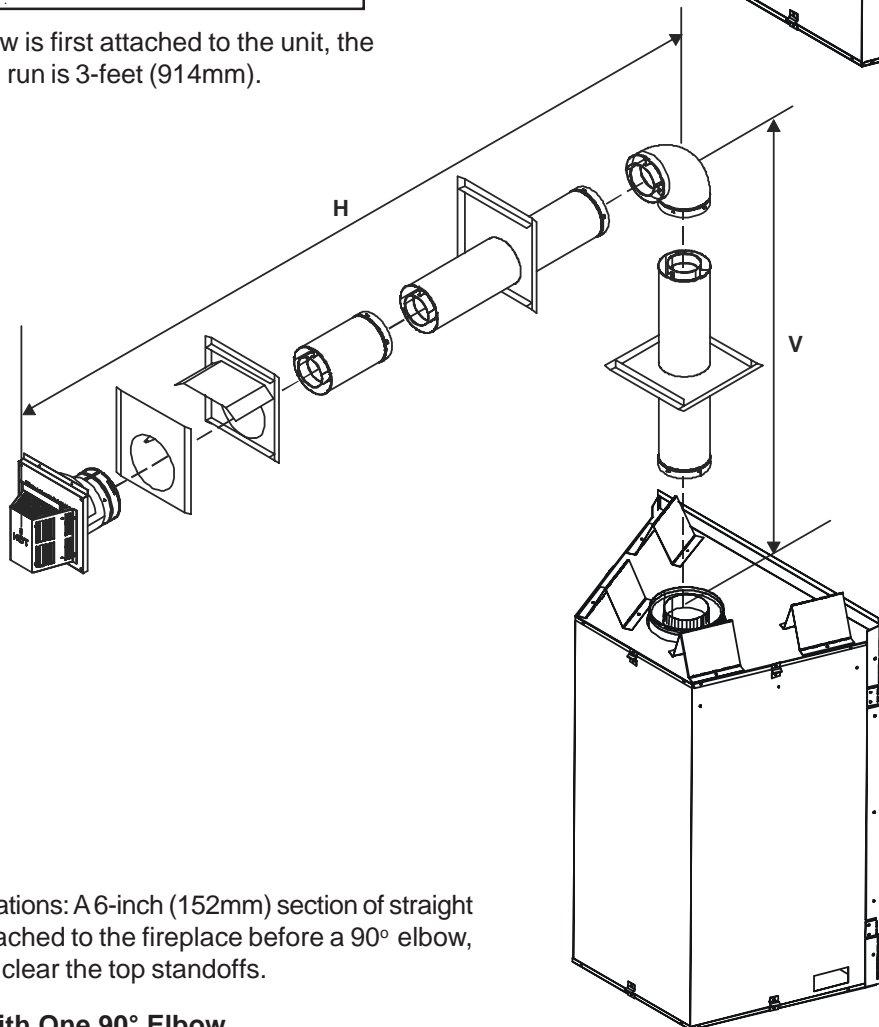
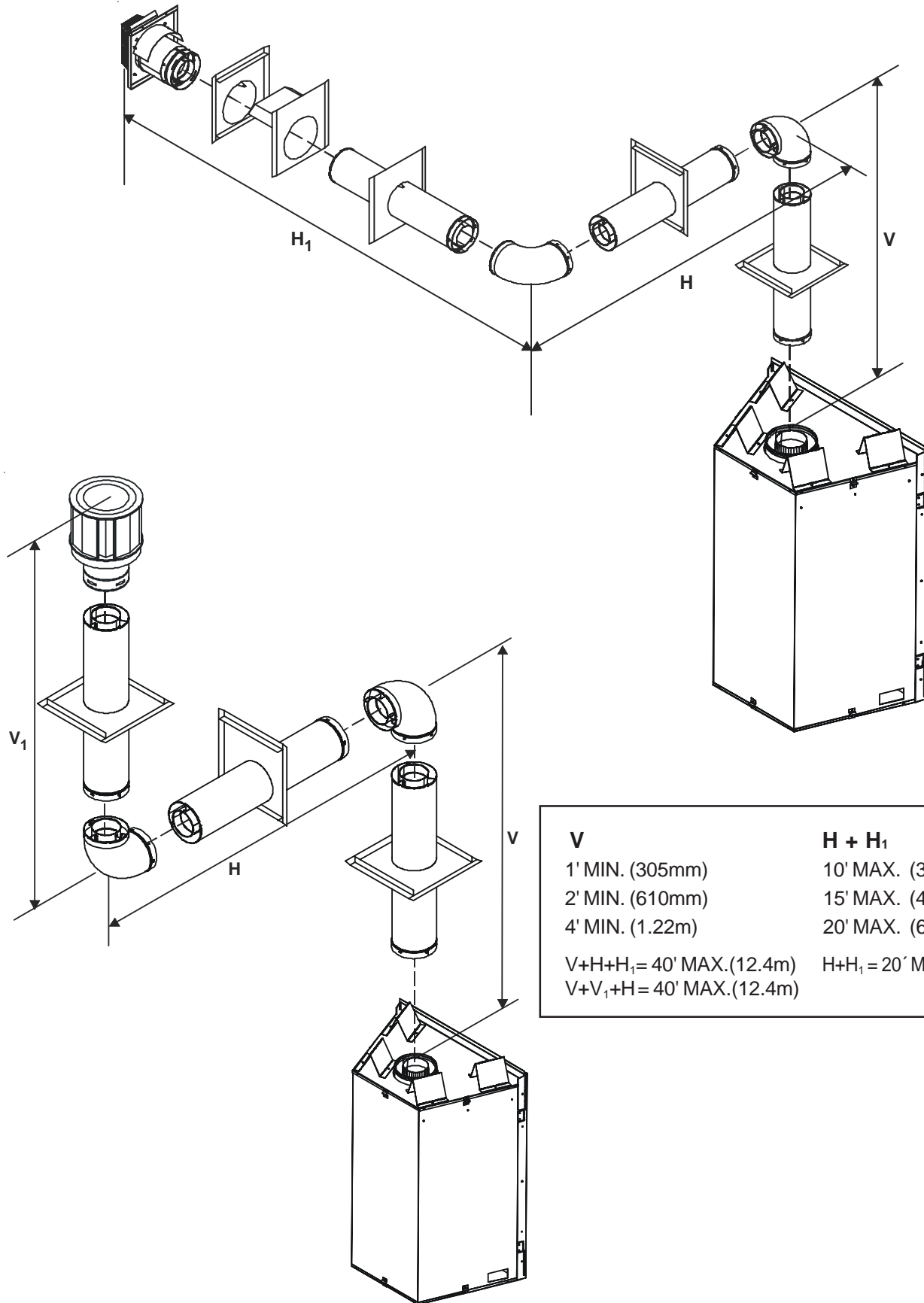


Figure 7. Venting with One 90° Elbow

VENTING WITH TWO (2) 90° ELBOWS



V	H + H₁
1' MIN. (305mm)	10' MAX. (3.1m)
2' MIN. (610mm)	15' MAX. (4.65m)
4' MIN. (1.22m)	20' MAX. (6.2m)
V+H+H ₁ = 40' MAX.(12.4m)	H+H ₁ = 20' MAX. (6.2m)
V+V ₁ +H= 40' MAX.(12.4m)	

Figure 8. Venting with Two 90° Elbows

VENTING WITH THREE (3) 90° ELBOWS

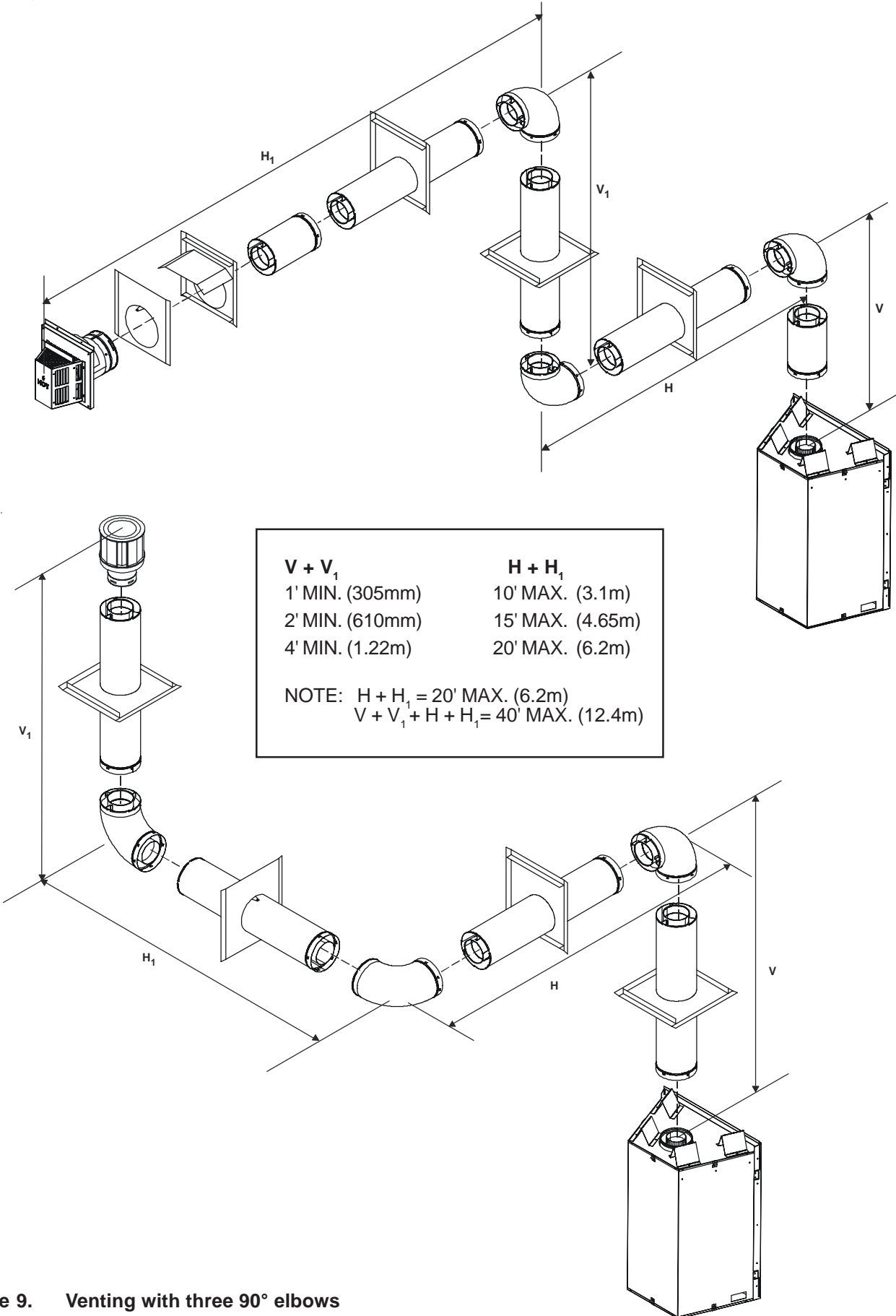


Figure 9. Venting with three 90° elbows

B. Installing Vent Components

If your vertical vent component is over 10 feet, you may want to install the included vertical baffle to improve flame appearance. Vertical baffle is located in the bag containing the instruction manual. Center the vertical baffle on the five inch flue being used, and with self tapping screws secure the baffle to the inside of the firebox (see Figure 10).

With vent runs of 30 feet or more without elbows, an additional baffle (SRV750-152) is to be used with the supplied baffle. This is a service part and is to be purchased separately.

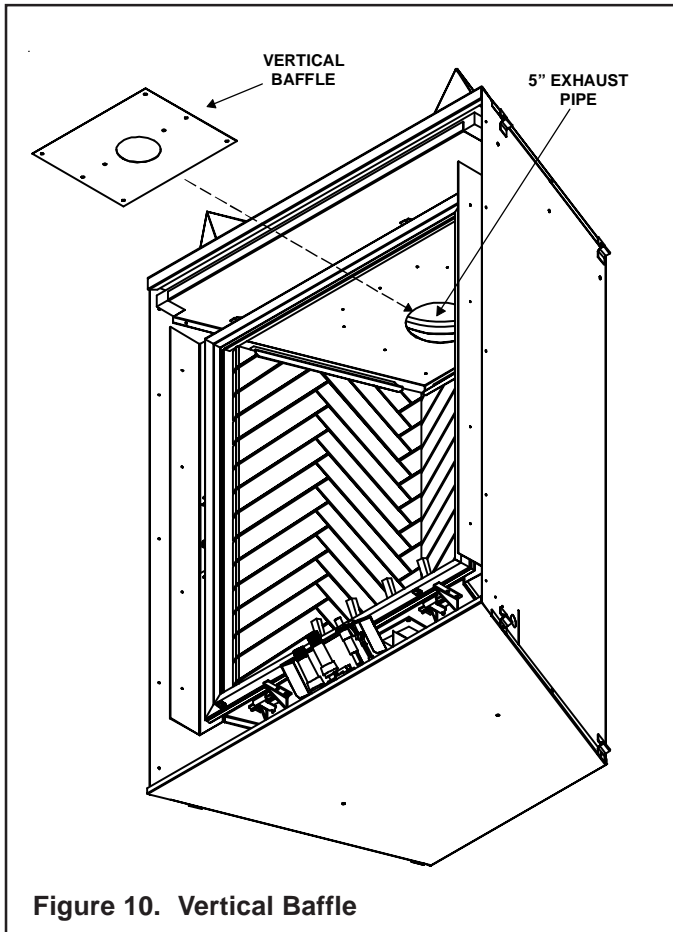


Figure 10. Vertical Baffle

1. Attach the First Vent Component to the Starting Collars

To attach the first vent component to the starting collars of the fireplace:

- Make sure that the fireplace gasket supplied with the fireplace seals between the first component and the outer fireplace wrap.
- Refer to Cinch Pipe and Termination Cap installation instructions.

2. Assembling Vent Sections

Refer to Cinch Pipe and Termination Cap installation instructions.



WARNING: ENSURE THAT THE FIBERGLASS GASKET SUPPLIED WITH THE FIREPLACE SEALS BETWEEN THE FIRST VENT COMPONENT AND THE OUTER FIREPLACE WRAP.

If the installation is for a termination cap attached directly to the fireplace, skip to the sections, **Install Firestops** and **Vent Termination**.



WARNING: INSTALLATION OF THIS FIRE-PLACE REQUIRES THE USE OF HEAT SHIELD 570-290 ABOVE THE FIRST 90° ELBOW IN THE VENTING SYSTEM.

- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. For elbows that are changing the vent direction, one screw minimum should be put in the outer flue at the joint to prevent the elbow from rotating.

To Install the Heat Shield:

1. Determine if the heat shield is required. Do so by measuring the vertical distance between the top horizontal surface of the elbow to any combustible surface above. If the distance is more than 4 inches, the heat shield is **NOT** required. If it is 4 inches or less, the heat shield **IS REQUIRED**. Install per the following steps. See Figure 11.
2. Fasten the shield in place using the four pilot holes provided in the part. The shield should be oriented such that the 13 1/8 inch dimension (longest dimension) is running in the same direction the elbow is pointing. The shield should be centered directly above the elbow, and positioned so that it creates a 1/2 inch airspace between the shield and the combustible surface. See Figure 12.

Refer to Cinch Pipe and Termination Cap installation instructions.

- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.

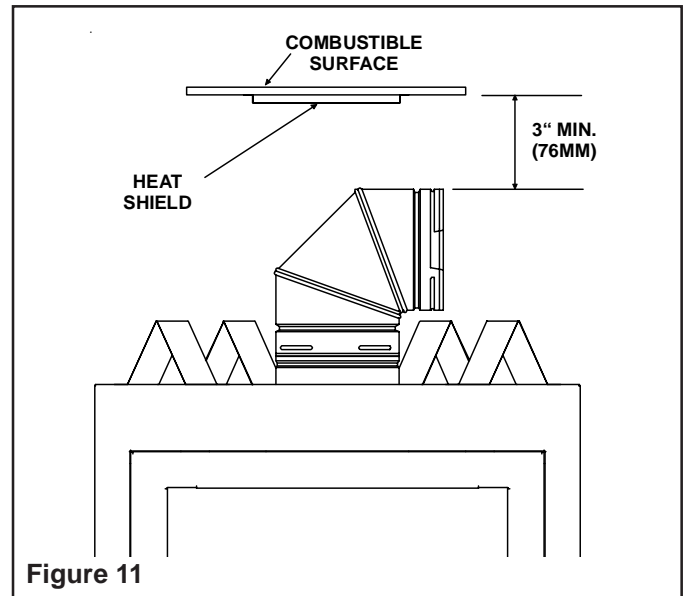


Figure 11

3. Install Support Brackets

Refer to Cinch Pipe and Termination Cap installation instructions.

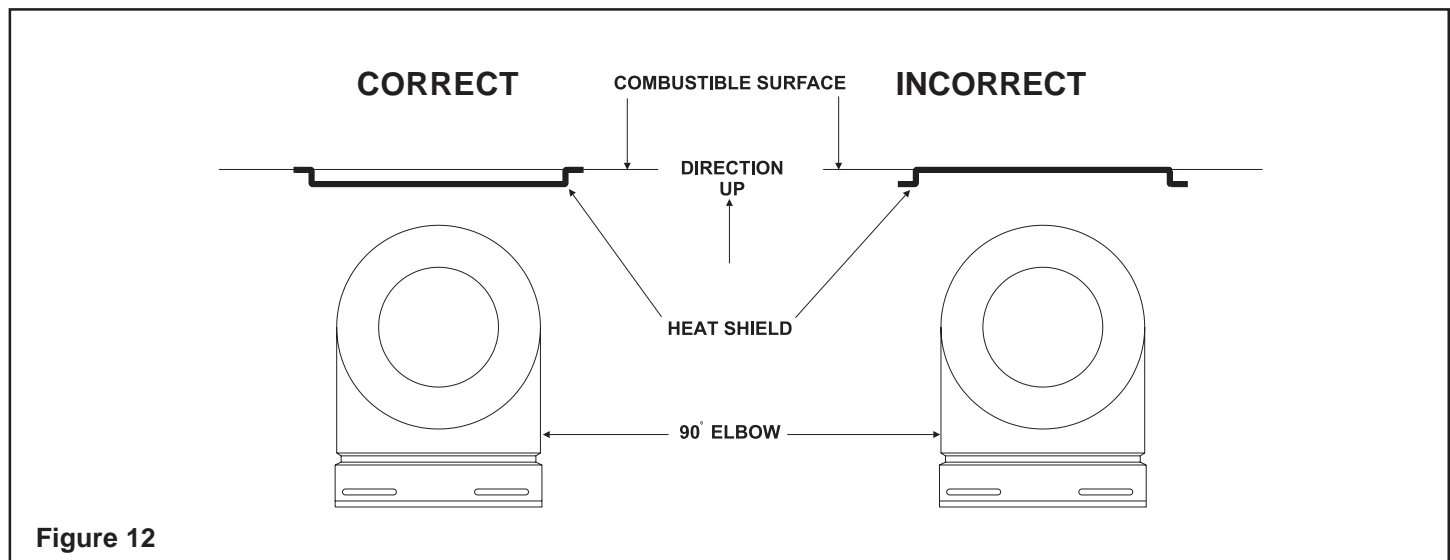


Figure 12

4. Install Firestops

For Horizontal Runs - Firestops are **REQUIRED** on both sides of a combustible wall through which the vent passes.

NOTE: Model DVP-TRAP does not need an exterior firestop on an exterior combustible wall.

To install firestops for horizontal runs that pass through either interior or exterior walls:

- Cut a 12-inch by 10-inch (305mm X 254mm) hole through the wall. The center of the hole is one (1) inch (25.4mm) above the center of the horizontal vent pipe.
- Position the firestops on both sides of the hole previously cut and secure the firestops with nails or screws.
- The pipe opening of the firestops **MUST** be placed towards the bottom of the fireplace.

NOTE: There must be NO INSULATION or other combustibles inside the framed firestop opening.

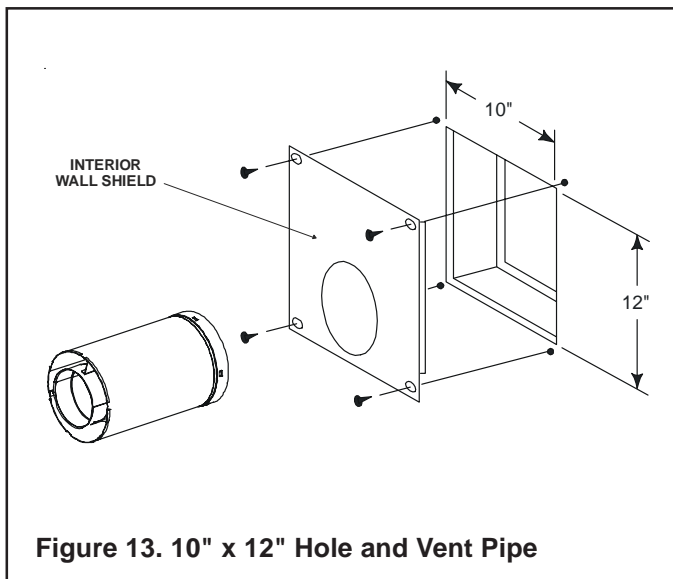


Figure 13. 10" x 12" Hole and Vent Pipe

For Vertical Runs - One ceiling firestop is **REQUIRED** at the hole in each ceiling through which the vent passes.

To install firestops for vertical runs that pass through ceilings:

- Position a plumb bob directly over the center of the vertical vent component.
- Mark the ceiling to establish the centerpoint of the vent.
- Drill a hole or drive a nail through this centerpoint.
- Check the floor above for any obstructions, such as wiring or plumbing runs.
- Reposition the fireplace and vent system, if necessary, to accommodate the ceiling joists and/or obstructions.
- Cut a 10-inch x 10-inch (254mm x 254mm) hole through the ceiling, using the centerpoint previously marked.
- Frame the hole with framing lumber the same size as the ceiling joists.

NOTE: There must be NO INSULATION or other combustibles inside the framed firestop opening.

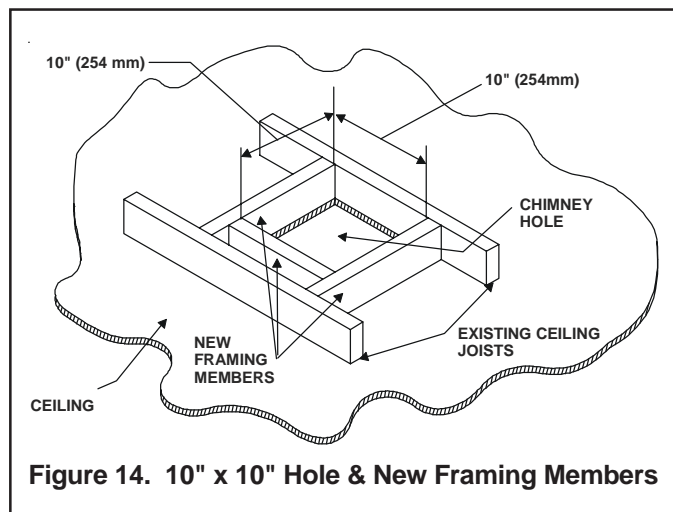


Figure 14. 10" x 10" Hole & New Framing Members

If the area above the ceiling is **NOT** an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole.

This shows a ceiling installation.

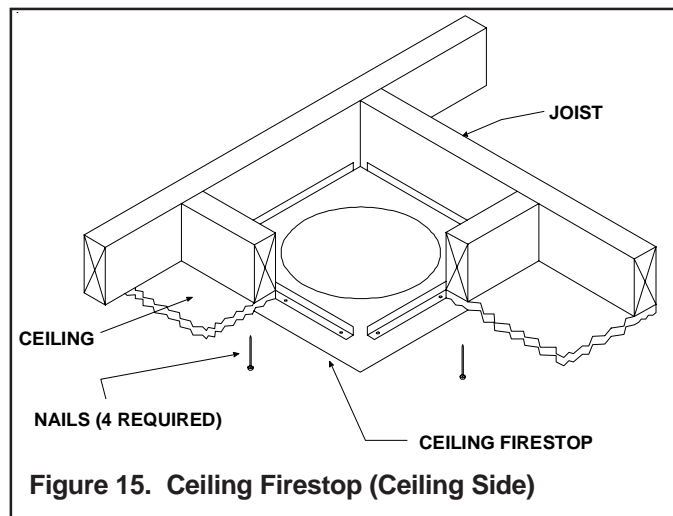


Figure 15. Ceiling Firestop (Ceiling Side)

If the area above the ceiling **IS** an attic, position and secure the firestop on top of the previously framed hole.

This shows an attic installation. Keep insulation away from the vent pipe at least 1 inch (25mm).

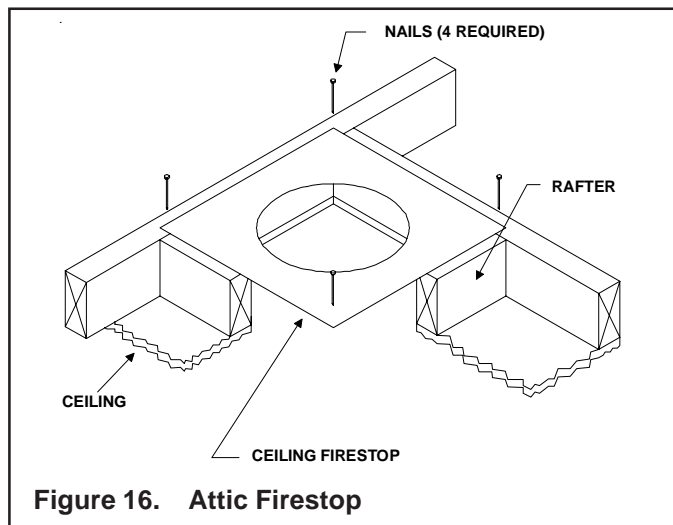


Figure 16. Attic Firestop

C. Vent Termination

Refer to Cinch Pipe and Termination Cap installation instructions.



WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINTING UP.



WARNING: VENTING TERMINALS SHALL NOT BE RECESSED INTO A WALL OR SIDING. VENT TERMINATION CLEARANCES MUST BE FOLLOWED TO AVOID FIRE DANGER. SEE VENT TERMINATION MINIMUM CLEARANCES DIAGRAM ON FOLLOWING PAGE.

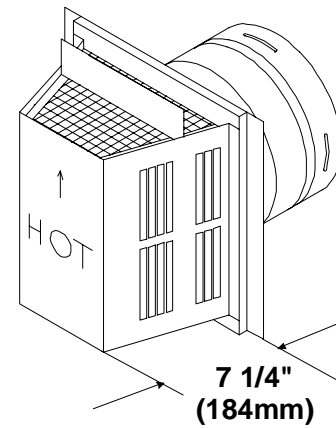
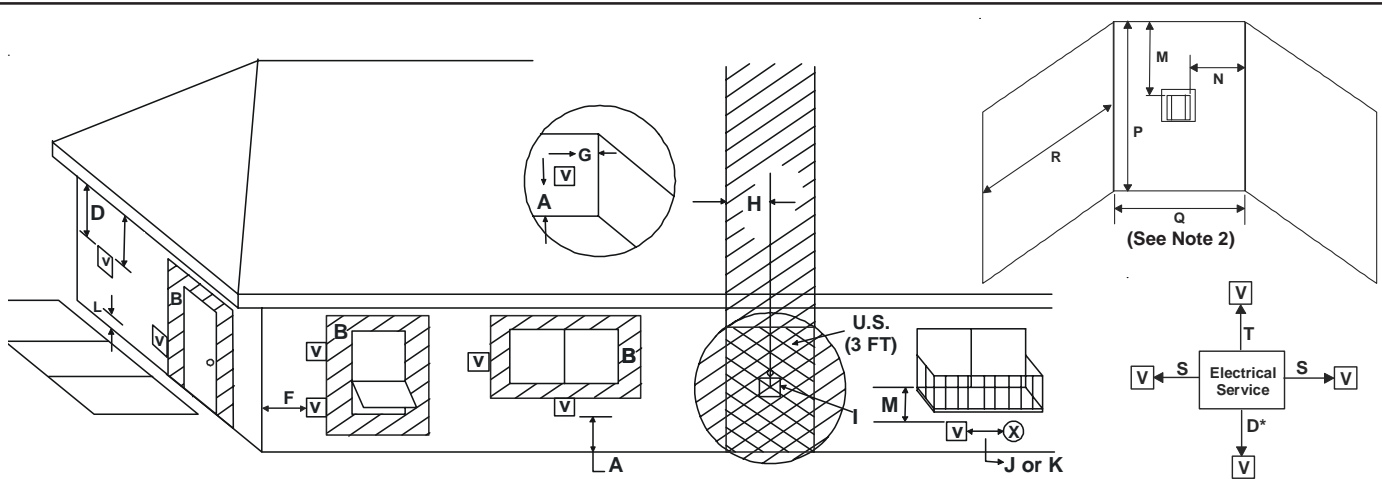


Figure 17. Trapezoid Termination Cap



V = VENT TERMINAL **X** = AIR SUPPLY INLET **[Hatched]** = AREA WHERE TERMINAL IS NOT PERMITTED

- A = 12 inches clearances above grade, veranda, porch, deck or balcony
(See Note 1)
- B = 12 inches clearances to window or door that may be opened, or to permanently closed window. (Glass)
- D* = 18 inches vertical clearance to unventilated soffit or to ventilated soffit located above the terminal
*30 inches for vinyl clad soffits and below electrical service
- F = 9 inches clearance to outside corner
- G = 6 inches clearance to inside corner
- H = 3 ft. (Canada) not to be installed above a gas meter/regulator assembly within 3 feet (90cm) horizontally from the center-line of the regulator
- I = 3 ft. (U.S.A.)
6 ft. (Canada) clearance to gas service regulator vent outlet
- J = 9 inches (U.S.A.)
12 inches(Canada) clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance
- K = 3 ft. (U.S.A.)
6 ft. (Canada) clearance to a mechanical (powered) air supply inlet
- L** = 7 ft. clearance above paved sidewalk or a paved driveway located on **public** property
(See Note 1)
- M*** = 18 inches clearance under veranda, porch, deck, balcony or overhang
42 inches vinyl

Alcove Applications

- N = 6 inches non-vinyl sidewalls
12 inches vinyl sidewalls
- P = 8 ft.

	Q_{MIN}	R_{MAX}
1 cap	3 feet	2 x Q _{ACTUAL}
2 caps	6 feet	1 x Q _{ACTUAL}
3 caps	9 feet	2/3 x Q _{ACTUAL}
4 caps	12 feet	1/2 x Q _{ACTUAL}
Q_{MIN} = # termination caps x 3		R_{MAX} = (2 / # termination caps) x Q_{ACTUAL}

- S = 6 inches clearance from sides of electrical service
(See Note 5)
- T = 12 inches clearance above electrical service
(See Note 5)

** a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

*** only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor, or meets Note 2.

NOTE 1: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda or balcony, use of a listed cap shield is suggested. (See vents components page)

NOTE 2: Termination in an alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. **1.** There must be 3 feet minimum between termination caps. **2.** All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. **3.** All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

NOTE 3: Local codes or regulations may require different clearances.

NOTE 4: Termination caps may be hot. Consider their proximity to doors or other traffic areas.

NOTE 5: Location of the vent termination must not interfere with access to the electrical service.

WARNING: In the U.S: Vent system termination is **NOT** permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is **NOT** permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated in the instructions.

Heat & Glo assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

➔ **Figure 18. Vent Termination Minimum Clearances**

CAUTION: IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS SUGGESTED THAT A VINYL PROTECTOR KIT BE INSTALLED.

For Vertical Terminations - To locate the vent and install the vent sections:

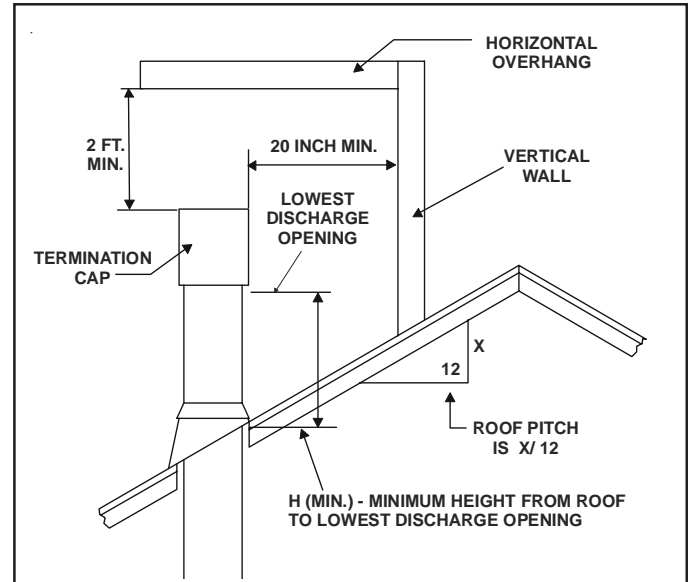
- Locate and mark the vent centerpoint on the underside of the roof, and drive a nail through the centerpoint.
- Make the outline of the roof hole around the centerpoint nail.
- The size of the roof hole framing dimensions depend on the pitch of the roof. There **MUST BE** a 1-inch (25.4mm) clearance from the vertical vent pipe to combustible materials.
- Mark the roof hole accordingly.
- Cover the opening of the installed vent pipes.
- Cut and frame the roof hole.
- Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.
- Continue to install concentric vent sections up through the roof hole (for inside vent installations) or up past the roof line until you reach the appropriate distance above the roof (for outside terminations).

WARNING: MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOF TOP. THESE MINIMUM HEIGHTS ARE NECESSARY IN THE INTEREST OF SAFETY. SEE THE FOLLOWING DIAGRAM FOR MINIMUM HEIGHTS, PROVIDED THE TERMINATION CAP IS AT LEAST TWENTY INCHES FROM A VERTICAL WALL AND 2-FEET BELOW A HORIZONTAL OVERHANG.

NOTE: This also pertains to vertical vent systems installed on the outside of the building.

To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a non-hardening mastic around the edges of the flashing base where it meets the roof.
- Attach a storm collar over the flashing joint to form a water-tight seal. Place non-hardening mastic around the joint, between the storm collar and the vertical pipe.
- Slide the termination cap over the end of the vent pipe and snap into place.

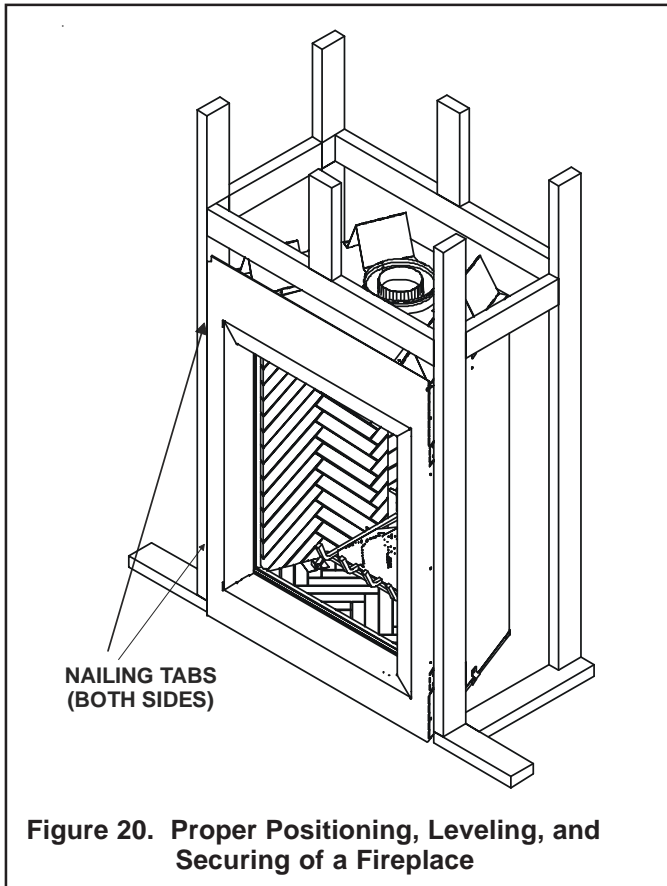


Roof Pitch	H (min.) ft.
flat to 6/12	1.0
6/12 to 7/12	1.25
over 7/12 to 8/12	1.5
over 8/12 to 9/12	2.0
over 9/12 to 10/12	2.5
over 10/12 to 11/12	3.25
over 11/12 to 12/12	4.0
over 12/12 to 14/12	5.0
over 14/12 to 16/12	6.0
over 16/12 to 18/12	7.0
over 18/12 to 20/12	7.5
over 20/12 to 21/12	8.0

Figure 19. Minimum Height from Roof to Lowest Discharge Opening

Step 4. Positioning, Leveling, and Securing the Fireplace

The diagram below shows how to properly position, level, and secure the fireplace.



1. Place the fireplace into position.
2. Level the fireplace from side to side and from front to back.
3. Shim the fireplace with non-combustible material, such as sheet metal, as necessary.
4. Secure the fireplace to the framing by nailing or screwing.

Step 5. The Gas Control Systems



WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Intermittent Pilot Ignition (IPI) System

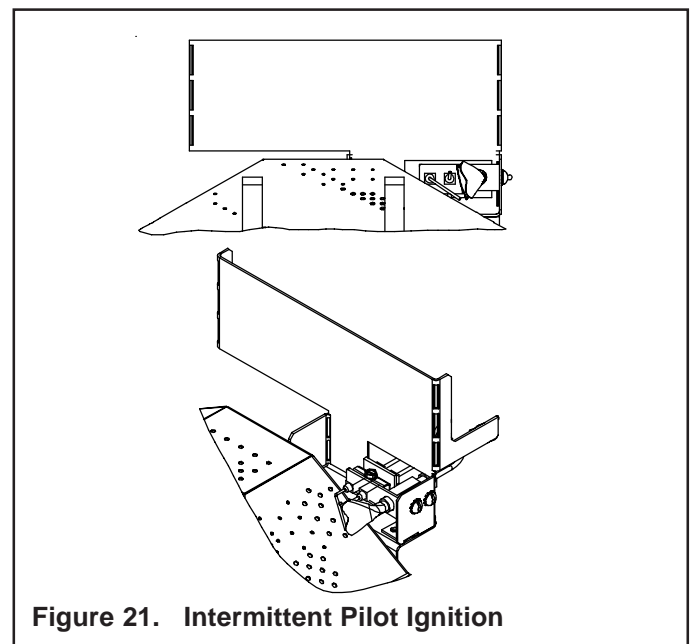
The gas control system used with this model is *Intermittent Pilot Ignition (IPI)*. This system includes a 3V control valve, electronic module, and intermittent pilot.



WARNING: CONTINUOUS 110-120 VAC SERVICE MUST BE WIRED TO THE FIREPLACE JUNCTION BOX.



WARNING: DIRECT VENT PROPANE MODELS WITH IPI CONTROL SYSTEMS CANNOT BE USED IN CANADA.



Step 6. The Gas Supply Line

NOTE: Have the gas supply line installed in accordance with local building codes by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

NOTE: Before the first firing of the fireplace, the gas supply line should be purged of any trapped air.

NOTE: Consult local building codes to properly size the gas supply line leading to the 1/2 inch (13 mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line.

To install the gas supply line:

- A listed (and Commonwealth of Massachusetts approved) 1/2 inch (13mm) tee-handle manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13mm) inlet of the control valve. **NOTE:** If substituting for these components, please consult local codes for compliance.
- Locate the gas line access hole in the outer casing of the fireplace.
- The gas line may be run from either side of the fireplace provided the hole in the outer wrap does not exceed 2 1/2" in diameter and it does not penetrate the actual firebox.
- The gap between the supply piping and gas access hole can be plugged with non-combustible insulation to prevent cold air infiltration.
- Open the fireplace lower grille, insert the gas supply line through the gas line hole, and connect it to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, use a soap solution to carefully check all gas connections for leaks.



WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

- At the gas line access hole, use insulation to re-pack the space around the gas pipe.
- Insert insulation from the outside of the fireplace and pack the insulation tightly to totally seal between the pipe and the outer casing.

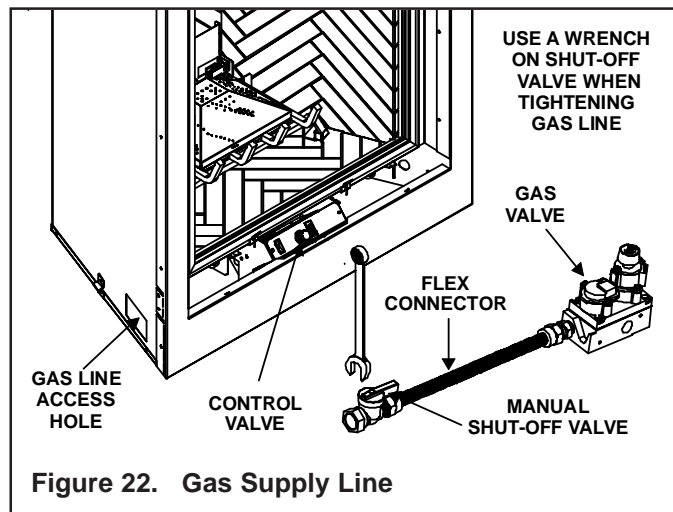


Figure 22. Gas Supply Line

Step 7. Gas Pressure Requirements

Pressure requirements for Heat & Glo gas fireplaces are shown in the table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

A one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping is provided on the inlet and outlet side of the gas control for a test gauge connection to measure the manifold pressure. Use a small flat blade screwdriver to crack open the screw in the center of the tap. Position a rubber hose over the tap to obtain the pressure reading.

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (1/2) psig (3.5 kPa).

The fireplace must be isolated from the gas supply piping system by closing its individual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than one-half (1/2) psig (3.5 kPa).

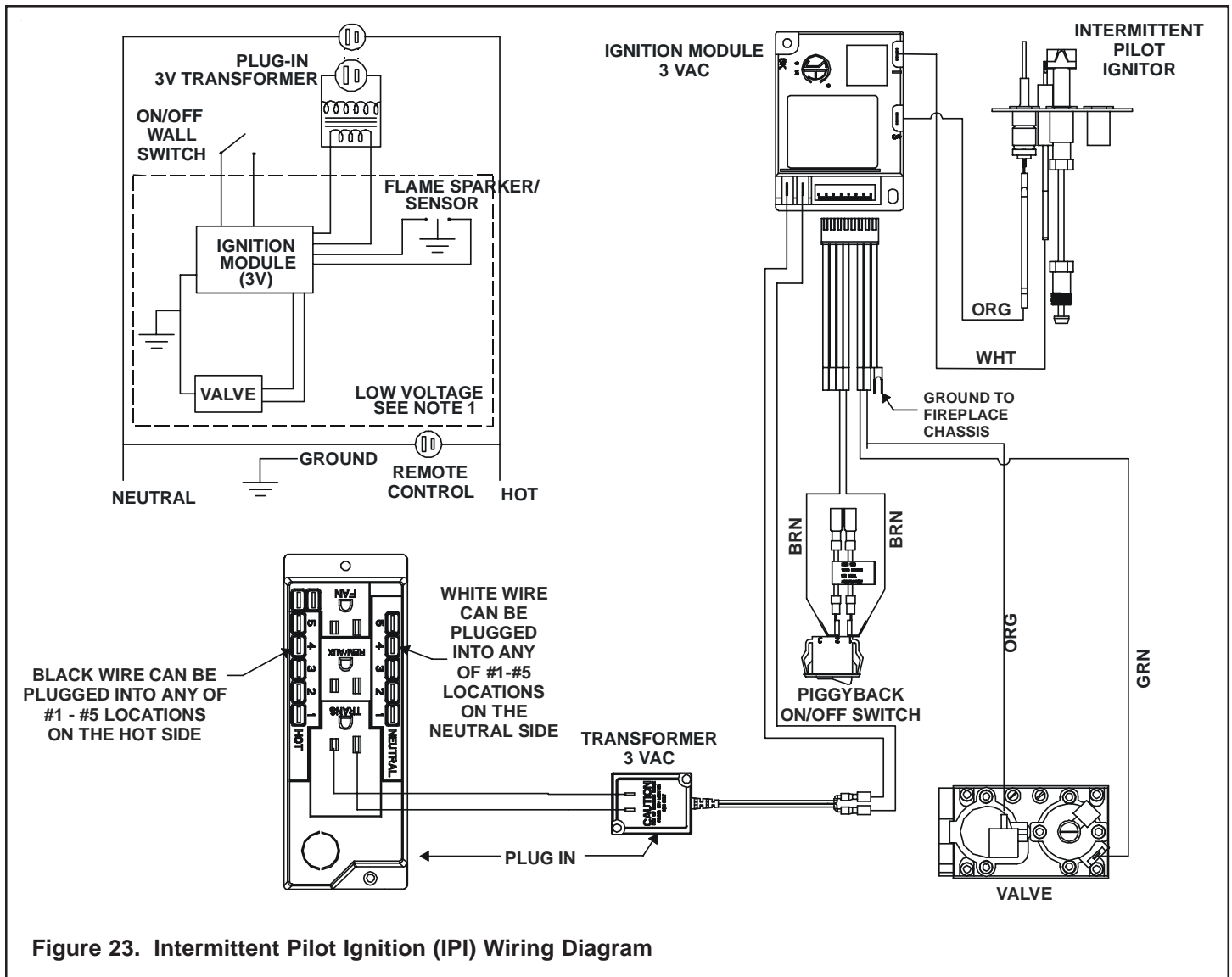


Figure 23. Intermittent Pilot Ignition (IPI) Wiring Diagram

Step 8. Wiring the Fireplace

NOTE: Electrical wiring must be installed by a licensed electrician.

CAUTION: DISCONNECT REMOTE CONTROLS IF YOU ARE ABSENT FOR EXTENDED TIME PERIODS. THIS WILL PREVENT ACCIDENTAL FIREPLACE OPERATION.

Intermittent Pilot Ignition (IPI) Wiring

Appliance Requirements

This appliance requires that 110-120 VAC be wired to the factory installed junction box. Maintain correct polarity when wiring the junction box.



WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR THE APPLIANCE WILL MALFUNCTION AND THE VALVE WILL BE DESTROYED.

Optional Accessories

Optional remote control kits require that 110-120 VAC be wired to the factory installed junction box before the fireplace is permanently installed.

Wall Switch

Position the wall switch in the desired position on the wall. An assembly of 18 ft of 20 AWG is provided with the fireplace to connect the wall switch to the appliance. Instead of the supplied assembly, wire with a length of 25 ft or less and a gauge of 20 AWG through 14 AWG is acceptable. The wire needs a jacket with a temperature rating of 140°F (60°C) or higher. At the appliance connect the wire to the ON/OFF switch pigtail.



WARNING: DO NOT CONNECT 110-120 VAC TO THE WALL SWITCH OR THE CONTROL VALVE WILL BE DESTROYED.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

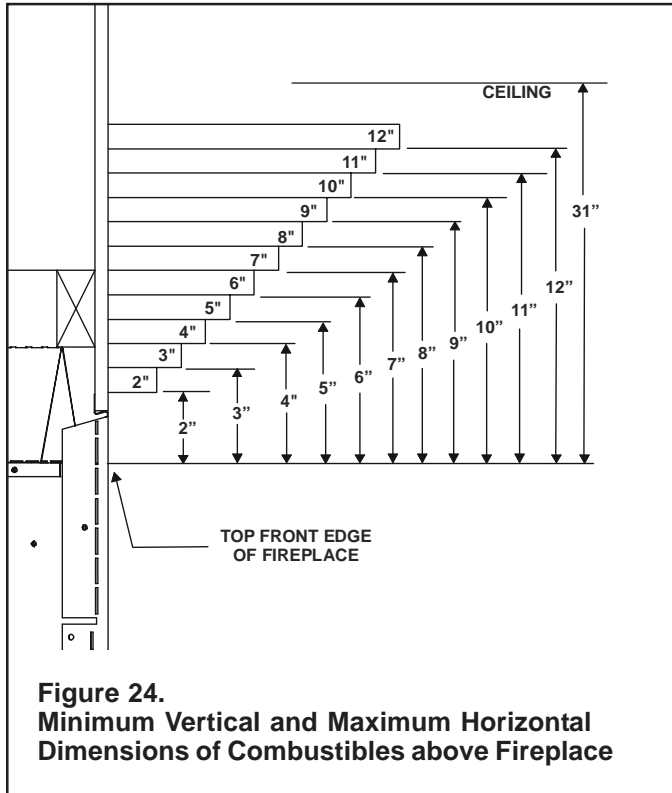
Step 9. Finishing

The following diagram shows the minimum vertical and corresponding maximum horizontal dimensions of fireplace mantels or other combustible projections above the top front edge of the fireplace. See Figures 2 and 3 for other fireplace clearances.

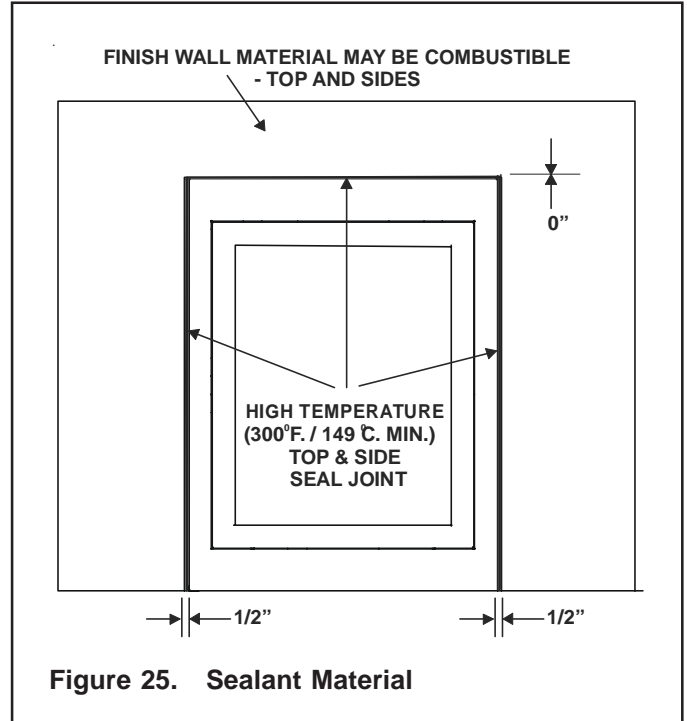
Only non-combustible materials may be used to cover the black fireplace front.



WARNING: WHEN FINISHING THE FIREPLACE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.



CAUTION: IF JOINTS BETWEEN THE FINISHED WALLS AND THE FIREPLACE SURROUND (TOP AND SIDES) ARE SEALED, A 300° F. MINIMUM SEALANT MATERIAL MUST BE USED. THESE JOINTS ARE NOT REQUIRED TO BE SEALED. ONLY NON-COMBUSTIBLE MATERIAL (USING 300° F. MINIMUM ADHESIVE, IF NEEDED) CAN BE APPLIED AS FACING TO THE FIREPLACE SURROUND. SEE THE DIAGRAM BELOW.



Hearth Extensions

A hearth extension may be desirable for aesthetic reasons. However, ANSI or CAN/CGA testing standards **do not** require hearth extensions for gas fireplace appliances.

Step 10. Installing Trim, Logs and Ember Material

Installing the Trim

Combustible materials may be brought up to the specified clearances on the side and top front edges of the fireplace, but **MUST NEVER** overlap onto the front face. The joints between the finished wall and the fireplace top and sides can only be sealed with a 300° F. (149° C) minimum sealant.

Install optional marble and brass trim surround kits as desired. Marble, brass, brick, tile, or other non-combustible materials can be used to cover up the gap between the sheet rock and the fireplace.

Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the instructions that accompany the logs. **Save the log instructions with this manual.**

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

Placing the Rock

A bag of rock is shipped with this fireplace. Refer to the placement instructions on the back of the log placement instructions.

Placing the Ember Material

Ember material is shipped with this gas fireplace. The bag labeled Glowing Ember (050-721) is standard glowing ember material. To place the ember material:

- Pull the six glass latches out of the groove on the glass frame. Remove the front trim door and the glass door from the unit.
- Cover the top of the burner with a single layer of ember material. For best performance do not place embers directly on the ports. Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door and a front trim door on the unit (see Service Parts List of this manual.)
- Pull out and latch the glass clips into the groove on the glass frame.

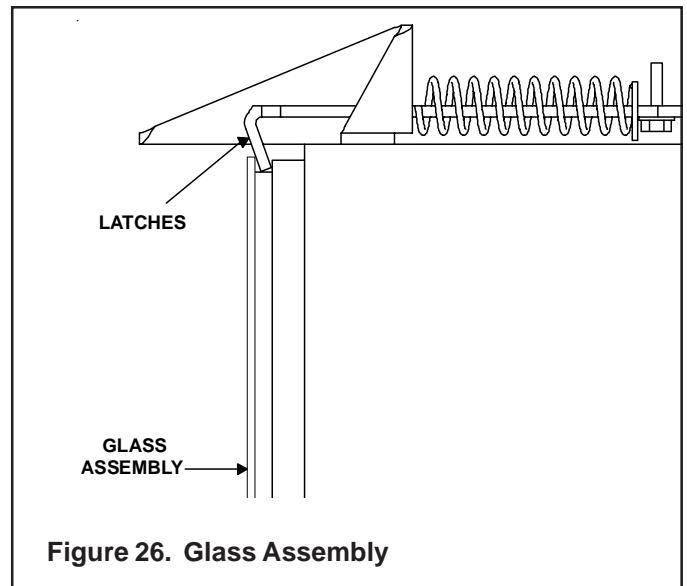


Figure 26. Glass Assembly

Glass Specifications: CERAMIC

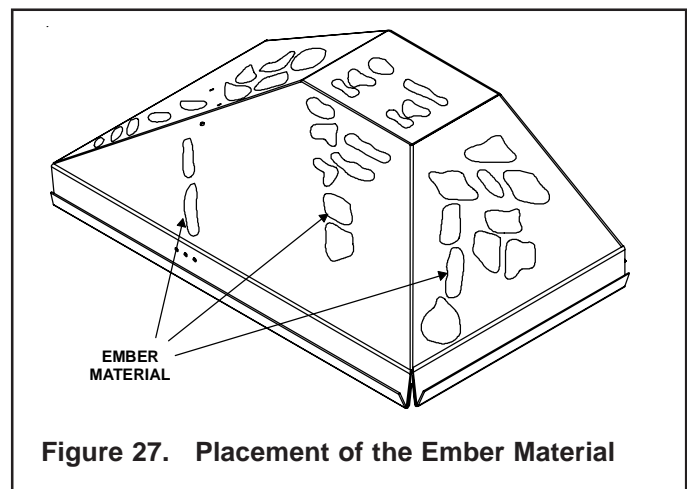


Figure 27. Placement of the Ember Material

Step 11. Before Lighting the Fireplace

Before lighting the fireplace, be sure to do the following:

Remove all paperwork from underneath the fireplace.

Review safety warnings and cautions

- Read the **Safety and Warning Information** section at the beginning of this *Installers Guide*.

Double-check for gas leaks

- Before lighting the fireplace, double-check the unit for possible gas leaks.

Double-check vent terminations and front grilles for obstructions.

- Before lighting the fireplace, double-check the unit for possible obstructions that could be blocking the vent terminations or the front grilles.

Double-check for faulty components

- Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the fireplace components is **DANGEROUS** and voids all warranties.

A small amount of air will be in the gas supply lines. When first lighting the fireplace, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the fireplace will light and will operate normally.

Subsequent lightings of the fireplace will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air would have to be purged.

NOTE: The fireplace should be run 3 to 4 hours on the initial start-up. Turn it off and let it cool completely. Remove and clean the glass. Replace the glass and run the fireplace for an additional 8 hours. This will help to cure the products used in the paint and logs.

During this break-in period it is recommended that some windows in the house be opened for air circulation. This will help avoid setting off smoke detectors, and help eliminate any odors associated with the fireplace's initial burning.

Step 12. Lighting the Fireplace

You've reviewed all safety warnings, you've checked the fireplace for gas leaks, you know the vent system is unobstructed, and you've checked for faulty components. Now you're ready to light the fireplace.



WARNING: PLEASE REFER TO THE USER'S MANUAL FOR ALL CAUTIONS, SAFETY, AND WARNING INFORMATION PERTAINING TO THE LIGHTING AND OPERATION OF THE FIREPLACE.

After the Installation



LEAVE THIS INSTALLATION MANUAL WITH THE APPLIANCE FOR FUTURE REFERENCE.

Battery Backup

This appliance may be operated on battery power in the case of power outage. To operate the appliance turn both the battery backup switch (right) and the main on/off switch (left) to "on". To conserve battery life, turn the battery backup switch "off" when not in use.

To replace the batteries, remove the screws holding the control panel in place and pull it out. Be careful not to disconnect any wires in the process.

NOTE: Remotes or other powered options will not function during a power outage.

4

Maintaining and Servicing Your Fireplace

Fireplace Maintenance

Although the frequency of your fireplace servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each fireplace maintenance task.

IMPORTANT: TURN OFF THE GAS BEFORE SERVICING YOUR FIREPLACE.

Replacing old ember material

Frequency: Once annually, during the checkup.

By: Qualified service technician.

Task: Brush away loose ember material near the burner. Replace old ember material with new dime-size and shape pieces of Golden Ember (DE-93) and Glowing Ember (050-721). New ember material should be placed alternately on top of the burner - a layer of Golden Ember, a layer of Glowing Ember, and so on. Save the remaining ember material and repeat this procedure at your next servicing. For more information, see **Placing Ember Material**.

Cleaning Burner and Controls

Frequency: Once annually.

By: Qualified service technician.

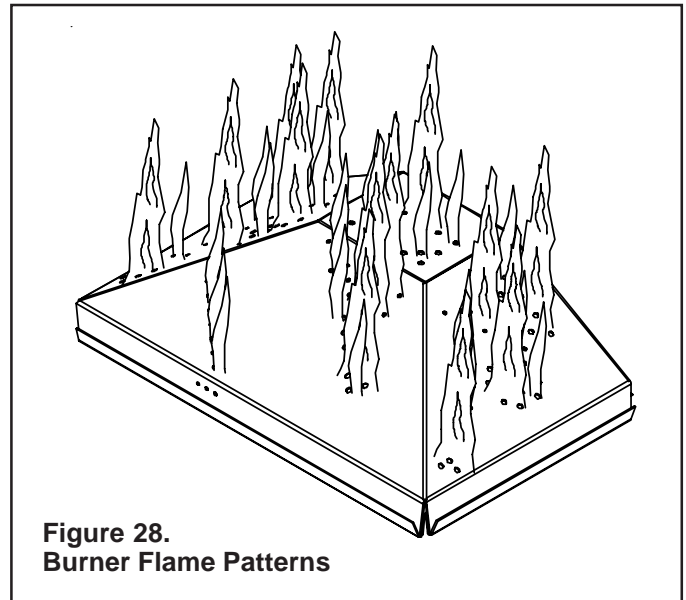
Task: Brush or vacuum the control compartment, fireplace logs and burner areas surrounding the logs.

Cleaning Flame Sensor Rod (IPI Systems)

Frequency: Periodically.

By: Qualified service technician.

Task: Make a visual check of the straight flame sensor rod. Use emery cloth to carefully remove any existing white deposits.



Checking Flame Patterns, Flame Height

Frequency: Periodically.

By: Qualified service technician/Home owner.

Task: Make a visual check of your fireplace's flame patterns. Make sure the flames are steady - not lifting or floating. See Figure 28.

Checking Vent System

Frequency: Before initial use and at least annually thereafter, more frequently if possible.

By: Qualified service technician/Home owner.

Task: Inspect the external vent cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.

Cleaning Glass Door

Frequency: After the first 3 to 4 hours of use. As necessary after initial cleaning.

By: Home owner.

Task: Clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. **NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.**